WE CLAIM:

1. A door lock apparatus, comprising the combination of:

a trim plate securable to the outside of a door;

a cylindrical lock assembly secured to said trim plate inwardly thereof when said plate is secured to the door, said cylindrical lock assembly including a latchbolt, a lock body having a retractor for said latchbolt, a spindle inwardly extending from said lock body and coupled to said retractor for unlatching said latchbolt upon rotation of said spindle, and a handle secured to said spindle for rotating said spindle;

a cylinder lock including a housing and a cylinder actuable for rotation in said housing, said cylinder lock secured to said trim plate and outwardly extending from said lock body; and

a cam secured to said cylinder and rotatable therewith, said cam coupled to said retractor for unlatching said latchbolt upon rotation of said cylinder.

2. The apparatus according to Claim 1, further including:

a key insertable in said cylinder lock and rotatable for rotating said cylinder.

3. The apparatus according to Claim 2, wherein:

said cylinder lock is a mortise lock cylinder.

4. The apparatus according to Claim 1, wherein:

said trim plate includes a pull handle for permitting the door to be pulled open when said plate is secured to the door and with said retractor unlatching said latchbolt.

5. The apparatus according to Claim 1, wherein:

said trim plate is a pull plate.

6. The apparatus according to Claim 1, wherein:

said trim plate includes a door engaging section securable to the door, a pull handle extending from said door engaging section, and a top edge and a bottom edge tapering toward said pull handle from said door engaging section.

7. The apparatus according to Claim 2,

wherein

said trim plate includes an opening;

and further including

an attachment plate secured to said trim plate, said attachment plate including an opening in registration with said opening in said trim plate, said openings permitting insertion of said cylinder lock therein, said attachment plate adapted to releasably secure said cylinder lock thereto when said cylinder lock is inserted in said openings.

8. The apparatus according to Claim 7, wherein:

said openings in said attachment plate and said opening in said trim plate are configured for facilitating outward withdrawal of said cylinder lock with said key inserted in said cylinder lock.

9. The apparatus according to Claim 3, wherein:

said trim plate includes an opening with at least two spaced radial protrusions into said opening;

said mortise lock cylinder includes at least two longitudinal grooves therealong in registration with said at least two protrusions for rotationally orienting said mortise lock cylinder on said trim plate; and

said rotatable cam includes an arcuate member having cam ends for operatively cooperating with said retractor upon rotation of said cam by said key inserted in said mortise lock cylinder, said arcuate member including peripheral notches at least one of which is alignable with a one of said grooves and a one of said protrusions when said cam is rotated by said key inserted in said mortise lock cylinder.

10. The apparatus according to Claim 9, wherein:

said opening in said trim plate further includes a cutout adjacent at least one of said protrusions configured for permitting a one of said cam ends to pass through said cutout when said cam is rotated by said key inserted in said mortise lock cylinder.

11. The apparatus according to Claim 10, further including:

an attachment plate secured to said trim plate, said attachment plate including an opening configured with at least one cutout similar to said at least one cutout in said trim plate, said openings including said cutouts in registration, said attachment plate adapted to releasably secure said mortise lock cylinder thereto when said mortise lock cylinder is inserted in said openings.

12. The apparatus according to Claim 11, wherein:

said opening in said attachment plate further includes an arcuate cutout for facilitating entry of said arcuate member into engageable position with said retractor.

13. The apparatus according to Claim 1, further including:

a hold-back apparatus in said cylindrical lock assembly including a lock in said handle for locking said spindle when said spindle is in a rotated position unlatching said latchbolt.

14. The apparatus according to Claim 13, wherein:

said handle is a lever handle and is in a rotated position when said spindle is locked with said latchbolt unlatched.

15. The apparatus according to Claim 1,

wherein

said lock body includes a chassis plate rotationally supporting said spindle and including a radial first notch;

said spindle includes a second notch in radial alignment with said first notch when said spindle is in a rotated position unlatching said latchbolt;

and further including

a radially extending member carried by said spindle and captured by said first notch; and

a lock in said handle coupled to said member for moving said member longitudinally along said notches, when said notches are radially aligned, between a first longitudinal position captured by said second notch and a second longitudinal position not captured by said second notch.

16. The apparatus according to Claim 15, wherein:

said handle is a lever handle and is in a rotated position when said latchbolt is unlatched.

17. The apparatus according to Claim 15,

wherein

said lock is a bored cylinder lock having a rotatable tail piece;

and further including

a rotational-to-translational motion converter carried by said spindle for converting rotation of said tail piece to longitudinal movement of said member.

18. The apparatus according to Claim 17, further including:

a key insertable in said bored lock cylinder and rotatable for rotating said tail piece.

19. A door lock apparatus, comprising the combination of:

a cylindrical lock assembly including a latchbolt, a lock body having a retractor for said latchbolt, a spindle extending from a first side of said lock body and coupled to said retractor for unlatching said latchbolt upon rotation of said spindle, and a handle secured to said spindle for rotating said spindle;

a cylinder lock including a housing and a cylinder actuable for rotation in said housing, said cylinder lock extending from a second side of said lock body opposite said first side; and

a cam secured to said cylinder and rotatable therewith, said cam coupled to said retractor for unlatching said latchbolt upon rotation of said cylinder.

20. The apparatus according to Claim 19, further including

a key insertable in said cylinder lock and rotatable for rotating said cylinder.

21. The apparatus according to Claim 20, wherein:

said cylinder lock is a mortise lock cylinder.

22. The apparatus according to Claim 19, further including

a door trim securable to a face of a door; and wherein

said lock body is secured to said door trim with said cylinder rotatably actuable from one side of said door trim and with said handle of said cylindrical lock assembly rotatable from another side of said door trim opposite said one side.

23. The apparatus according to Claim 22, wherein:

said door trim is a pull plate.

24. The apparatus according to Claim 23, wherein:

said pull plate includes a door engaging section securable to the door, a pull handle extending from said door engaging section, and a top edge and a bottom edge tapering toward said pull handle from said door engaging section.

25. The apparatus according to Claim 19, further including:

a hold-back apparatus in said cylindrical lock assembly including a lock in said handle for locking said spindle when said spindle is in a rotated position unlatching said latchbolt.

26. The apparatus according to Claim 25, wherein:

said handle is a lever handle and is in a rotated position when said spindle is locked with said latchbolt unlatched.

27. The apparatus according to Claim 19,

wherein

said lock body includes a chassis plate rotationally supporting said spindle and including a radial first notch;

said spindle includes a second notch in radial alignment with said first notch when said spindle is in a rotated position unlatching said latchbolt;

and further including

a radially extending member carried by said spindle and captured by said first notch; and

a lock in said handle coupled to said member for moving said member longitudinally along said notches, when said notches are radially aligned, between a first longitudinal position captured by said second notch and a second longitudinal position not captured by said second notch.

28. The apparatus according to Claim 27 wherein:

said handle is a lever handle and is in a rotated position when said latchbolt is unlatched.

29. The apparatus according to Claim 27,

wherein

said lock is a bored cylinder lock having a rotatable tail piece;

and further including

a rotational-to-translational motion converter carried by said spindle for converting rotation of said tail piece to longitudinal movement of said member.

30. The apparatus according to Claim 27, further including:

a key insertable in said bored lock cylinder and rotatable for rotating said tail piece.

31. The apparatus according to Claim 22,

wherein

said door trim includes an opening;

and further including

an attachment plate secured to said door trim, said attachment plate including an opening in registration with said opening in said door trim, said openings permitting insertion of said cylinder lock therein, said attachment plate adapted to releasably secure said cylinder lock thereto when said cylinder lock is inserted in said openings.

32. The apparatus according to Claim 31, wherein:

said opening in said attachment plate and said opening in said door trim are configured for facilitating outward withdrawal of said cylinder lock upon rotation of said cylinder.

33. A cylindrical lock apparatus for a door, comprising the combination of:

a latchbolt, a lock body having a retractor for said latchbolt, a spindle extending from a first side of said lock body and coupled to said retractor for unlatching said latchbolt upon rotation of said spindle, a handle secured to said spindle for rotating said spindle, and a lock in said handle for locking said spindle when said spindle is in a rotated position unlatching said latchbolt.

34. The apparatus according to Claim 33, wherein:

said handle is a lever handle and is in a rotated position when said spindle is locked for unlatching said latchbolt.

35. A cylindrical lock apparatus for a door, comprising the combination of:

a latchbolt, a lock body having a retractor for said latchbolt, a spindle coupled to said retractor for unlatching said latchbolt upon rotation of said spindle, and a handle secured to said spindle for rotating said spindle;

a chassis plate rotationally supporting said spindle with respect to said lock body, said chassis plate including a radial first notch;

a second notch in said spindle in radial alignment with said first notch when said spindle is in a rotated position unlatching said latchbolt;

a radially extending member carried by said spindle and captured by said first notch; and

a lock in said handle coupled to said member for moving said member longitudinally along said notches, when said notches are radially aligned, between a first longitudinal position captured by said second notch and a second longitudinal position not captured by said second notch.

36. The apparatus according to Claim 35, wherein:

said handle is a lever handle and is in a rotated position when said latchbolt is unlatched.

37. The apparatus according to Claim 35,

wherein

said lock is a bored cylinder lock having a rotatable tail piece;

and further including

a rotational-to-translational motion converter carried by said spindle for converting rotation of said tail piece to longitudinal movement of said member.

38. The apparatus according to Claim 37, further including:

a key insertable in said bored lock cylinder and rotatable for rotating said tail piece.